

Amendments of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the patent application:

Listing of Claims

1-9. (Canceled)

10. (Previously Presented) A method for forming an improved field emission display device, comprising the steps of:

providing a screen; and

simultaneously applying a phosphor material and a binder material on said screen, said binder material holding said phosphor material to said screen, said binder material comprising a conductive material.

11-12. (Canceled)

13. (Previously Presented) A method according to claim 10 wherein said binder material is selected from the group consisting of: tin(II) 2-ethylhexanoate, tin (IV) isopropoxide, tin(II) oxalate, titanium (IV) ethoxide, zinc 2,4-pentane dionate, zinc acetate, and zinc oxalate.

14. (Previously Presented) A method according to claim 10 wherein said binder material is selected from the group consisting of: poly(propylene carbonate) and poly(ethylene Carbonate).

15. (Canceled)

16. (Previously Presented) A method according to claim 10 wherein the screen is coated with transparent conducting film selected from the group consisting of: indium tin oxide (ITO), zinc oxide (ZnO), tin oxide (SnO₂) doped with antimony (Sb), cadmium oxide (CdO), and cadmium tin oxide (Cadmium stannate) Cd₂SnO₄.

17. (Currently Amended) A method according to claim 10 wherein the binder material is an organometallic compound selected from the group consisting of: cadmium (Cd), titanium (Ti), zinc (Zn), tin (Sn), indium (In), antimony (Sb), tungsten (W), niobium (Nb), further comprising the step of heating said binder material to form conductive and/or semiconductive oxides.

18. (Original) A method according to claim 10 wherein said binder material is transparent.

19. (Previously Presented) A method according to claim 10 wherein said binder material is heated to remove any organics and leave behind a conducting or semiconducting oxide which binds the phosphor particles to each other and to the screen.

20. (Previously Presented) A method for forming a field emission display device, comprising:

providing a faceplate comprising a transparent screen having at least one side;
applying a transparent conductor to said side of said screen;
simultaneously applying a layer of phosphor and conductive binder material to said transparent conductor, said binder material holding said phosphor to said transparent conductor;
providing a baseplate comprising:
a base electrode;

a plurality of conical field emission cathodes having a base and a tip, the bases of said field emission cathodes being disposed on said base electrode; and

a grid electrode disposed proximally to the tips of said field emission cathodes;

positioning the baseplate proximal said side of said screen so that said baseplate is spaced apart from said faceplate; and

providing a vacuum gap between said faceplate and said baseplate.

21. (Canceled)